

Title (en)

Device for monitoring pipe installation

Title (de)

Vorrichtung zur Überwachung des Verlegens eines Rohres

Title (fr)

Appareil pour contrôler l'installation d'un tuyau

Publication

EP 1130213 A1 20010905 (EN)

Application

EP 01301734 A 20010226

Priority

GB 0004957 A 20000302

Abstract (en)

A device (6) for attachment to a pipe (7) to be installed in the ground has load cells (17) for detecting a pulling force applied to the pipe (7), as the latter is pulled through the ground, an inclinometer (18), for detecting the inclination of the device (6), and a pressure transducer (20) for detecting the pressure surrounding the device. Data representative of the pulling force, inclination and pressure is stored in the device (6) and protected against unauthorised access by a security code or a procedure, so that a verifiable record of the pipe installation process is available. <IMAGE>

IPC 1-7

E21B 7/20; **E21B 47/00**; **E21B 44/00**

IPC 8 full level

E21B 7/20 (2006.01); **E21B 44/00** (2006.01)

CPC (source: EP US)

E21B 7/20 (2013.01 - EP US); **E21B 44/00** (2013.01 - EP US)

Citation (search report)

- [Y] US 5132904 A 19920721 - LAMP LAWRENCE R [US]
- [Y] US 5833015 A 19981110 - HESSE ALFONS [DE], et al
- [Y] US 5163520 A 19921117 - GIBSON PAUL N [US], et al
- [PA] DE 10016948 A1 20001102 - ZUEBLIN AG [DE]

Cited by

GB2431011A; US7221155B2; WO2004065754A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

EP 1130213 A1 20010905; **EP 1130213 B1 20040707**; AT E270744 T1 20040715; DE 60104154 D1 20040812; DE 60104154 T2 20050804; GB 0004957 D0 20000419; US 2001024597 A1 20010927; US 6616378 B2 20030909

DOCDB simple family (application)

EP 01301734 A 20010226; AT 01301734 T 20010226; DE 60104154 T 20010226; GB 0004957 A 20000302; US 79412401 A 20010227